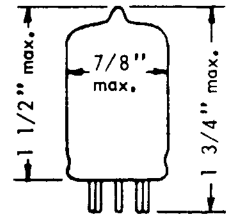
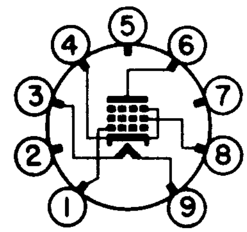
RAYTHEON **TECHNICAL INFORMATION**

Excellence in Electronics

PENTODE

TYPE CK5847





BOTTOM VIEW

9X

The CK5847 (404A) is a heater-cathode type, high transconductance, sharp cut-off pentode of miniature construction. The design features of low noise, low interelectrode capacitances, and high transconductance make it suitable for service as a wide band RF or IF amplifier. It is designed for dependable operation in equipment with low plate supply voltages. The heater-cathode construction is designed to withstand many thousands of cycles of intermittent operation.

MECHANICAL DATA

ENVELOPE: T–6½ Glass

BASE: Miniature Button 9–Pin

TERMINAL CONNECTIONS:

Pin 1 Grid #1	Pin 5 No Connection
Pin 2 No Connection	Pin 6 Plate
Pin 3 Heater, Lower Internal Shield	Pin 7 No Connection
Pin 4 Cathode, Grid #3 Upper Internal Shield	Pin 8 Grid #2
	Pin 9 Heater

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: ($\mu\mu$fds) (With External Shield)

Grid to Plate	0.05	max.
Input	7.2	
Output	3.15	

RATINGS ABSOLUTE MAXIMUM VALUES:

Heater Voltage (ac or dc)	6.3± 10%	volts
Plate Voltage	200	volts
Grid #2 Voltage	165	volts
Plate Dissipation	3.3	watts
Grid #2 Dissipation	0.85	watts
Cathode Current	40	ma
Heater-Cathode Voltage	55	volts

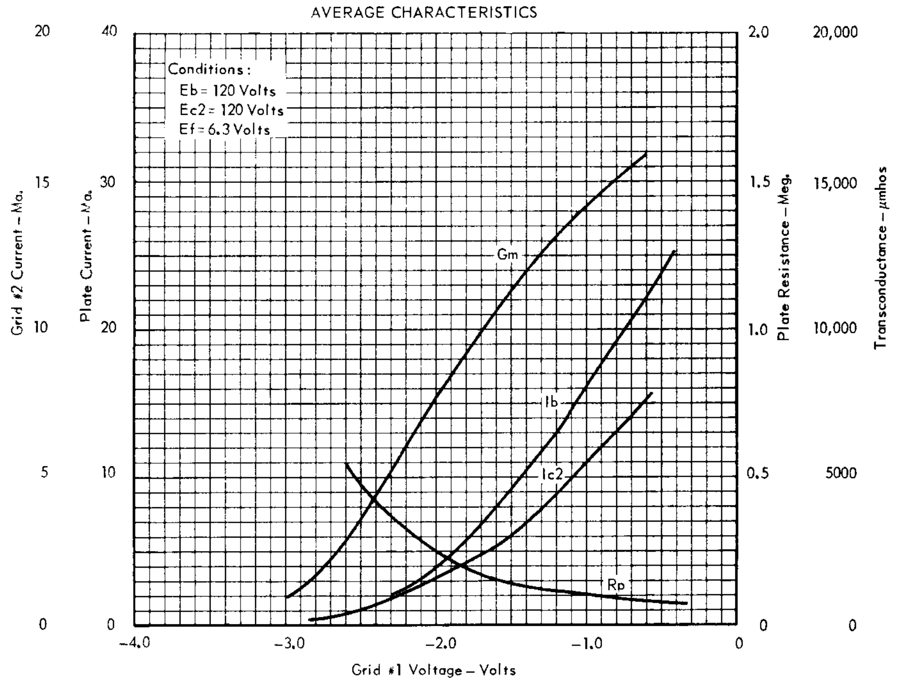
CHARACTERISTICS AND TYPICAL OPERATION:

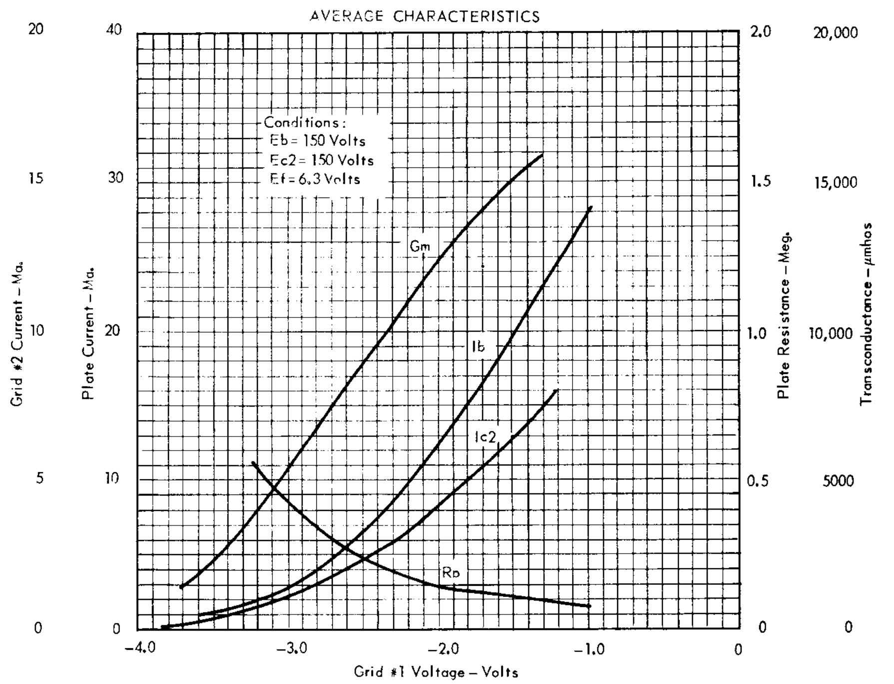
Heater Voltage	6.3	6.3	volts
Heater Current	0.3	0.3	A.
Plate Voltage	150	160	volts
Grid #2 Voltage	150	160	volts
Cathode Bias Resistance	110	600	ohms
Grid #1 Voltage	0	+8.5	volts
Plate Current	13.5	13.5	ma
Grid #2 Current	4.0	4.0	ma
Plate Resistance	0.2	0.2	meg
Transconductance	13,000	13,000	μmhos

Tentative Data

RAYTHEON

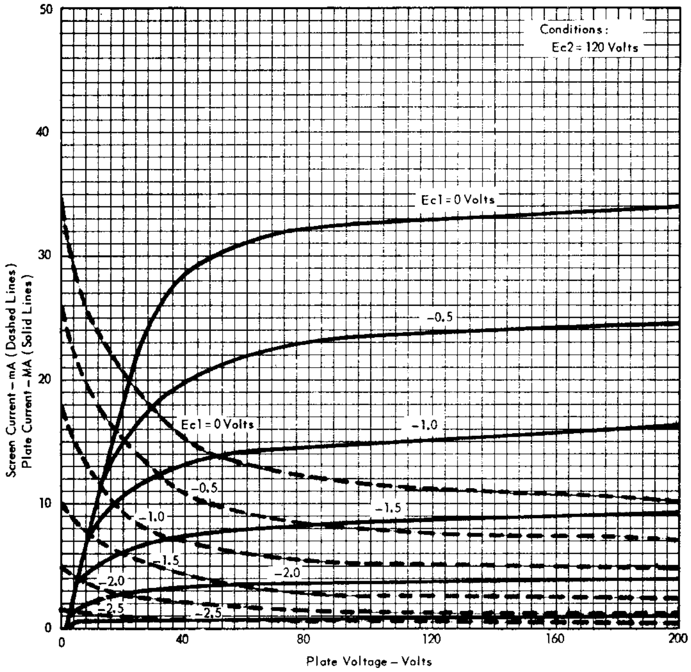
PENTODE



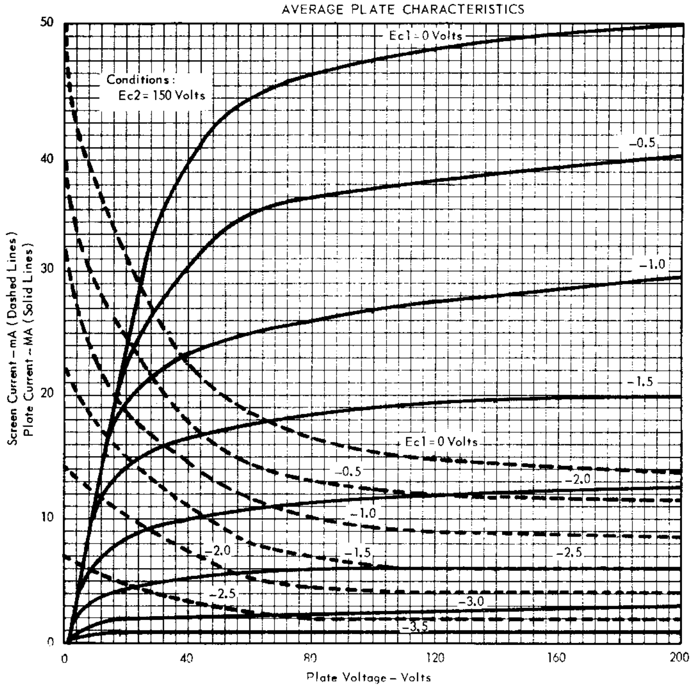


PENTODE

AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



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INDUSTRIAL COMPONENTS DIVISION

RAYTHEON COMPANY

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